PCT/JP03/08696

A. CLASSIFICATION OF SUBJECT MATTER					
	Int.Cl ⁷ C22C38/00, C22C38/58, F16L19/08, F16K27/00				
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According to International Patent Classification (IPC) or to both national classification and IPC					
D. DIELDS CHARCHED					
B. FIELDS SEARCHED					
Minimum documentation searched (classification system followed by classification symbols)					
Int.Cl ⁷ C22C38/00, C22C38/58, F16L19/08, F16K27/00					
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched					
	Jitsuyo Shinan Koho 1922-1996 Toroku Jitsuyo Shinan Koho 1994-2003				
	Kokai Jitsuyo Shinan Koho 1971-2003 Jitsuyo Shinan Toroku Koho 1996-2003				
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Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)					
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C. DOCUMENTS CONSIDERED TO BE RELEVANT					
Categ	gory*	Citation of document, with indication, where ap	opropriate, of the relevant passages	Relevant to claim No.	
×	, 	JP 2002-69590 A (NKK Corp.),		1	
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	- 1	27 March, 2002 (27.03.02),		ľ	
		Full text		j i	
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	19 September, 2000 (19.09.00)		,	<i>1</i>	
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$\overline{\Box}$	En wha	r documents are listed in the continuation of Box C.	See patent family annow		
	r.mirue	a documents are noted in the continuation of Box C.	See patent family annex.		
* Special categories of cited documents: "T" later document published after the international filing date or				mational filing date or	
	"A" document defining the general state of the art which is not considered to be of particular relevance		priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention		
	earlier document but published on or after the international filing		"X" document of particular relevance; the claimed invention cannot be		
	date		considered novel or cannot be considered to involve an inventive		
		nt which may throw doubts on priority claim(s) or which is establish the publication date of another citation or other	step when the document is taken alone "Y" document of particular relevance: the	claimed investion cannot be	
special reason (as specified)			considered to involve an inventive step when the document is		
"O" document referring to an oral disclosure, use, exhibition or other			combined with one or more other such	documents/such	
	means "P" document published prior to the international filing date but later		combination being obvious to a person document member of the same patent?		
than the priority date claimed			parameter of mo anno parent		
		ctual completion of the international search	Date of mailing of the international search		
3	31 0	ctober, 2003 (31.10.03)	18 November, 2003 (18.11.03)	
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Name and mailing address of the ISA/			Authorized officer	<u>-</u>	
Japanese Patent Office			/ Lamonized Onlices	<i>§</i>	
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Facsimile No. Telephone No.				# .	
				C.	

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